

ABSTRACT

An electrode assembly and construction method therefor for use in small high performance batteries suitable for implantable medical device applications. The electrode assembly comprises a stack of precisely aligned planar elements including alternately arranged positive and negative planar electrodes having a planar separator interposed between adjacent electrodes. Each electrode is preferably formed of a thin metal substrate carrying active material on front and rear faces. The peripheral edge of each electrode defines an active area and a tab extending therefrom. The front and rear faces of the active area each carries a layer of active material. The faces of the tab area are preferably bare. The positive electrode tabs are located at a first position along the peripheral edge whereas the negative tabs are located at a second position spaced from said first position. Each tab carries a clip to form a reinforcing strip adjacent each tab face. Alignment holes are formed in the clips and tabs.